



Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **1 of 6**

Application Number	10/527,963
Filing Date	March 15, 2005
First Named Inventor	Vladimir CEPERKOVIC, et al.
Art Unit	2624
Examiner Name	Eueng-nan Yeh
Attorney Docket Number	66391.000002

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
/E.Y./	1.	V. R. Algazi, et al., "Analysis Based Coding of Image Transform and Subband Coefficients", SPIE Applications of Digital Image Processing XVIII, Vol. 2564, pg. 11-21, July 1995.	<input type="checkbox"/>	<input type="checkbox"/>
	2.	M. Antonini, et al., "Image Coding using the Wavelet Transform", IEEE Trans. Image Pro., Vol. 1, No. 2, pg. 205-220, April 1992.	<input type="checkbox"/>	<input type="checkbox"/>
	3.	M. Boliek, et al. (editors), "JPEG2000 Part I final Draft International Standard", (ISO/IEC FDIS15444-1), ISO/IEC JTC1/SC29/WG1 N1855, August 18, 2000.	<input type="checkbox"/>	<input type="checkbox"/>
	4.	L. Bottou, et al., "The Z-coder Adaptive Coder", Proc. Data Compression Conf., Snowbird, UT, pg. 13-22, March 1998.	<input type="checkbox"/>	<input type="checkbox"/>
	5.	R. W. Buccigrossi, et al., "Image Compression via Joint Statistical Characterization in the Wavelet Domain", GRASP Laboratory Technical Report #414, University of Pennsylvania, USA, May 30, 1997.	<input type="checkbox"/>	<input type="checkbox"/>
	6.	R. W. Buccigrossi, et al., "Image Compression via Joint Statistical Characterization in the Wavelet Domain", IEEE Trans. Image Processing, Vol. 8, No. 12, pg. 1688-1701, Dec. 1999.	<input type="checkbox"/>	<input type="checkbox"/>
	7.	R. W. Buccigrossi, et al., "Progressive Wavelet Image Coding Based on a Conditional Probability Model", Proc. Int. Conf. Acoustics, Speech, Signal Processing (ICASSP), Munich, Germany, Vol. 4, pg. 2597-2600, April 21-24, 1997.	<input type="checkbox"/>	<input type="checkbox"/>
	8.	P. J. Burt, et al., "The Laplacian Pyramid as a Cocept Image Code", IEEE Trans. Commun., Vol. 31, No. 4, pg. 532-540, April 1983.	<input type="checkbox"/>	<input type="checkbox"/>
	9.	C. Christopoulos, et al., "The JPEG2000 still Image Coding System: An Overview", IEEE Trans. Consum. Electr., Vol. 46, No. 4, pg. 1103-1127, Nov. 2000.	<input type="checkbox"/>	<input type="checkbox"/>
	10.	C. Chrysafis, et al., "Efficient Context-Based Entropy Coding for Lossy Wavelet Image Compression", Data Compression Conf., Snowbird, UT, March 25-27, 1997.	<input type="checkbox"/>	<input type="checkbox"/>
✓	11.	C. Chrysafis, et al., "Line Based Reduced Memory Wavelet Image Compression", Proc. Data Compression Conf., Snowbird, UT, March 30-April 1, 1998.	<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE

/Eueng Nan Yeh/

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10/27/2009

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Sheet	2 of 6		

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			YES	NO
/E.Y./	12.	C. Chrysafis, et al., "An Algorithm Low Memory Wavelet Image Compression", Proc. IEEE Int. Conf. Image Processing (ICIP), Kobe, Japan, October 24-28, 1999.	<input type="checkbox"/>	<input type="checkbox"/>
	13.	C. Chrysafis, et al., "Line Based Reduced Memory Wavelet Image Compression", IEEE Trans. Image Processing, Vol. 9, No. 3, pg. 378-389, March 2000.	<input type="checkbox"/>	<input type="checkbox"/>
	14.	C. Chrysafis, Wavelet Image Compression Rate Distortion Optimizations and Complexity Reductions", Ph.D. Thesis, University of Southern California, USA, March 2000.	<input type="checkbox"/>	<input type="checkbox"/>
	15.	C. Chrysafis, et al., "Minimum memory Implementations of the Lifting Scheme", SPIE, Int. Symp. Optical Science Tech., San Diego, CA, July 30-August 4, 2000.	<input type="checkbox"/>	<input type="checkbox"/>
	16.	O. Egger, et al., "High Performance Compression of Visual Information - A Tutorial review-Part I: Still Pictures", Proc. IEEE, Vol. 87, No. 6, pg. 976-1011, June 1999.	<input type="checkbox"/>	<input type="checkbox"/>
	17.	O. Egger, et al., "Subband coding of Images using Asymmetrical Filter Banks", IEEE Trans. Image Processing, Vol. 4, No. 4, pg. 478-485, April 1995.	<input type="checkbox"/>	<input type="checkbox"/>
	18.	D. Le Gall, et al., "Subband Coding of Digital Images Using Symmetric Short kernel Filters and Arithmetic Coding Techniques", Proc. Int. Conf. Acoustics, Speech, Signal Processing (ICASSP), New York, NY, pg. 761-765, April 1988.	<input type="checkbox"/>	<input type="checkbox"/>
	19.	T. Granlund, et al., "Division by invariant Integers using Multiplication", SIGPLAN Notices, Vol. 29, No. 6, pg. 61, June 1994.	<input type="checkbox"/>	<input type="checkbox"/>
	20.	D. A. Huffman, "A method for the construction of minimum-redundancy Codes", Proc. IRE, vol. 40, No. 9, pg. 1098-1101, September 1952.	<input type="checkbox"/>	<input type="checkbox"/>
	21.	J. D. Johnston, "A filter Family Designed for use in Quadrature Mirror Filter Banks", Proc. Int. Conf. Acoustics, Speech, Signal Processing (ICASSP), Denver, CO, pg. 291-294, April 9-11, 1980.	<input type="checkbox"/>	<input type="checkbox"/>
✓	22.	D. J. Magenheimer, et al., "Integer Multiplication and Division on the HP Precision Architecture," IEEE Trans. Computers, Vol. 37, No. 8, pg. 980-990, August 1988.	<input type="checkbox"/>	<input type="checkbox"/>

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Substitute for form 1449/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;"><i>(use as many sheets as necessary)</i></p> <p style="text-align: center;"><small>published in Proc. IEEE International Conference on Digital Signal Processing, June 1995</small></p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;">10/527,963</td> </tr> <tr> <td>Filing Date</td> <td>March 15, 2005</td> </tr> <tr> <td>First Named Inventor</td> <td>Vladimir CEPERKOVIC, et al</td> </tr> <tr> <td>Art Unit</td> <td>2624</td> </tr> <tr> <td>Examiner Name</td> <td>Eueng-nan Yeh</td> </tr> <tr> <td>Attorney Docket Number</td> <td>66391.000002</td> </tr> </table>		Application Number	10/527,963	Filing Date	March 15, 2005	First Named Inventor	Vladimir CEPERKOVIC, et al	Art Unit	2624	Examiner Name	Eueng-nan Yeh	Attorney Docket Number	66391.000002
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			YES	NO											
<div style="font-size: 2em;">E.Y.</div>	23.	S. G. Mallat, "A Theory for Multiresolution Signal Decomposition: The Wavelet Representation", IEEE Trans. Pattern Analysis Machine Intelligence, Vol. 11, No. 7, pg. 674-693, July 1989.	<input type="checkbox"/>	<input type="checkbox"/>											
	24.	G. N. N. Martin, "Range encoding: an Algorithm for Removing Redundancy from a Digitised Message", Proc. Video & Data Recording Conf., Southampton, UK, July 24-27, 1979.	<input type="checkbox"/>	<input type="checkbox"/>											
	25.	Mitchell, et al., "Software Implementations of the Q-coder", IBM J. Res. Develop., Vol. 21, no. 6, pg. 753-774, November 1988.	<input type="checkbox"/>	<input type="checkbox"/>											
	26.	A. Moffat, et al., "Arithmetic coding Revisited", ACM Trans. Inform. Syst., Vol. 16, No. 3, pg. 256-294, July 1998.	<input type="checkbox"/>	<input type="checkbox"/>											
	27.	Nayebi, et al., "Time Domain Filter Bank Analysis: A New Design Theory", IEEE Trans. Signal Processing, Vol. 40, No. 6, pg. 1412-1429, June 1992.	<input type="checkbox"/>	<input type="checkbox"/>											
	28.	T. Q. Nguyen, "A Tutorial on Filter Banks and Wavelets", University of Wisconsin, Madison, WI 53706, USA. <small>(IEEE International Conference on Digital Signal Processing, Cypress, June 1995)</small>	<input type="checkbox"/>	<input type="checkbox"/>											
	29.	B. A. Olshausen, et al., "Natural Image Statistics and Efficient Coding", Network: Computation in Neural Systems, Vol. 7, No. 2, pg. 333-339, July 1996.	<input type="checkbox"/>	<input type="checkbox"/>											
	30.	W. A. Pearlman, "High Performance, low complexity image compression", Applications of Digital Image Processing X, Proc. SPIE 3164, pg. 234-246, July 1997.	<input type="checkbox"/>	<input type="checkbox"/>											
	31.	W. B. Pennebaker, et al., "An Overview of the Basic Principles of the Q-coder Adaptive Binary Arithmetic Coder", IBM J. Res. Develop., Vol. 32, No. 6, pg. 717-726, Nov. 1988.	<input type="checkbox"/>	<input type="checkbox"/>											
	32.	A. Said, et al., "An Image Multiresolution Representation for Lossless and Lossy Compression", IEEE Trans. Image Processing, Vol. 5, No. 9, pg. 1303-1310, September 1996.	<input type="checkbox"/>	<input type="checkbox"/>											
33.	A. Said, et al., "A New Fast and Efficient Image Codec Based on Set Partitioning in Hierarchical trees", IEEE Trans. Circuits Syst. Video Tech., Vol. 6, No. 3, pg. 243-250, June 1996.	<input type="checkbox"/>	<input type="checkbox"/>												
<div style="font-size: 2em;">V</div>															
EXAMINER SIGNATURE /Eueng Nan Yeh/		DATE CONSIDERED 10/27/2009													
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			YES	NO
/E.Y./	34.	D. Santa-Cruz, et al., "JPEG2000 still Image Coding Versus other Standards", Proc. SPIE 45 th Annual Meeting, Applications of Digital Image Processing XXIII, San Diego, CA, Vol. 4115, pg. 445-454, July 30-August 4, 2000.	<input type="checkbox"/>	<input type="checkbox"/>
	35.	M. Schindler, "A Fast Renormalization for Arithmetic Coding", Poster as DDC, Data Compression Conf., Snowbird, UT, March 30-April 1, 1998.	<input type="checkbox"/>	<input type="checkbox"/>
	36.	J. M. Shapiro, "Embedded Image Coding using Zerotrees of Wavelets Coefficients", IEEE Trans. Signal Processing, Vol. 41, No. 12, pg. 3445-3462, December 1993.	<input type="checkbox"/>	<input type="checkbox"/>
	37.	E. P. Simoncelli, et al., Embedded Wavelet Image Compression based on a joint Probability Model", Proc. 4 th Int. Conf. Image Processing, Santa Barbara, CA, USA, October 26-29, 1997.	<input type="checkbox"/>	<input type="checkbox"/>
	38.	E. P. Simoncelli, et al., "Noise Removal via Bayesian Wavelet Coring", Proc. 3 rd Int. Conf. Image Processing, Lausanne, Switzerland, Vo. 1, pg. 379-383, September 1996.	<input type="checkbox"/>	<input type="checkbox"/>
	39.	M. J. Smith, et al., "A Procedure for Designing Exact Reconstruction Filter Banks for Tree Structured Subband Coders", Proc. Int. Conf. Acoustics, Speech, Signal Processing (ICASSP), San Diego, CA, pg. 27.1.1-27.1.4, March 1984.	<input type="checkbox"/>	<input type="checkbox"/>
	40.	M. J. Smith, et al., "Exact Reconstruction Techniques for Tree Structured Subband Coders", IEEE Trans. Acoustics, Speech, Signal Processing, Vol. 34, No. 3, pg. 434-441, June 1986.	<input type="checkbox"/>	<input type="checkbox"/>
	41.	S. D. Stearns, "Arithmetic Coding in Lossless Waveform Compression", IEEE Trans. Signal Processing, Vol. 43, No. 8, pg. 1874-1879, August 1995.	<input type="checkbox"/>	<input type="checkbox"/>
	42.	W. Sweldens, "The Lifting Scheme: A Custom-Design Construction of Biorthogonal Wavelets", Appl. Comput. Harmonic Analysis, Vol. 3, No. 2, pg. 186-200, 1996. (published before this application March 15, 2005)	<input type="checkbox"/>	<input type="checkbox"/>
	43.	W. Sweldens, "The Lifting Scheme: Construction of Second Generation Wavelets", SIAM J. Math. Anal., Vol. 29, No. 2, pg. 511-546, 1997. (published before this application March 15, 2005)	<input type="checkbox"/>	<input type="checkbox"/>
✓	44.	S. Todd, et al., "Parameter Reduction and Context Selection for Compression of Gray-scale Images", IBM J. Res. Develop., Vol. 29, No. 2, pg. 188-193, March 1985.	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
/E.Y./	45.	P.P. Vaidyanathan, "Quadrature Mirror Filter Bank, M-Band Extensions and Perfect Reconstruction Technique", IEEE Acoustics, Speech, Signal Processing Mag., Vol. 4, No. 7, pg. 1035-1037, July 1987.	<input type="checkbox"/>	<input type="checkbox"/>
	46.	P. P. Vaidyanathan, "Theory and Design of M-Channel Maximally Decimated Quadrature Mirror Filters with Arbitrary M, having Perfect Reconstruction Property", IEEE Trans. Acoustics, Speech, Signal Processing, Vol. 35, No. 4, pg. 476-496, April 1987.	<input type="checkbox"/>	<input type="checkbox"/>
	47.	M. Vetterli, "Multi-dimensional Subband Coding: Some Theory and Algorithms", Signal Processing, Vol. 6, No. 2, pg. 97-112, April 1984.	<input type="checkbox"/>	<input type="checkbox"/>
	48.	M. Vetterli, "Filter Banks Allowing Perfect Reconstruction", Signal Processing, Vol. 10, No. 3, pg. 219-244, April 1986.	<input type="checkbox"/>	<input type="checkbox"/>
	49.	M. Vetterli, et al., "Perfect Reconstruction FIR Filter Banks: Some Properties and Factorization", IEEE Trans. Acoustics, Speech, Signal Processing, Vol. 37, No. 7, Pg. 1057-1071, July 1989.	<input type="checkbox"/>	<input type="checkbox"/>
	50.	G. K. Wallace, "The JPEG still Picture Compression Standard", IEEE Trans. Consum. Electron., Vol. 38, No. 1, pg. 18-34, February 1992.	<input type="checkbox"/>	<input type="checkbox"/>
	51.	G. K. Wallace, "The JPEG still Picture Compression Standard", Commun. ACM, Vol. 34, No. 4, pg. 30-44, April 1991.	<input type="checkbox"/>	<input type="checkbox"/>
	52.	L. H. Witten, et al., "Arithmetic Coding for Data Compression", Commun. ACM, Vol. 30, No. 6, pg. 520-540, June 1987.	<input type="checkbox"/>	<input type="checkbox"/>
	53.	S. Wong, et al., "Radiologic Image Compression - A review", Proc. IEEE, Vol. 83, No. 2, pg. 194-219, February 1995.	<input type="checkbox"/>	<input type="checkbox"/>
	54.	J. Woods, et al., "Subband Coding of Images", IEEE Trans. Acoustics, Speech, Signal Processing, Vol. 34, No. 5, pg. 1278-1288, October 1986.	<input type="checkbox"/>	<input type="checkbox"/>
✓	55.	A. Zandi, et al., "CREW lossless/lossy Medical Image Compression", Ricoh California Research Center, Menlo Park, CA 94025, USA, September 12, 1995.	<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
/E.Y./	56.	"Digital Compression and Coding of Continuous-Tone still Images", Int. Org. Standardization ISO/IEC, JTC1 Committee Draft, JPEG 8-R8, 1990. (August, 1990)	<input type="checkbox"/>	<input type="checkbox"/>
	57.	"Range Encoder Homepage", retrieved from the internet at http://www.compressionconsult.com/rangeencoder/ , retrieved from the internet on December 6, 2005.	<input type="checkbox"/>	<input type="checkbox"/>
	58.	R. E. Crochiere, et al., "Digital Coding of Speech in Subbands", Bell Syst. Tech. J., Vol. 55, No. 8, pg. 1069-1085, October 1976.	<input type="checkbox"/>	<input type="checkbox"/>
	59.	E. N. Gilbert, et al., "Variable length Binary Encodings", Bell Syst. Tech. J., Vol. 38, No. 4, pg. 933-967, July 1959.	<input type="checkbox"/>	<input type="checkbox"/>
	60.	N. D. Memon, et al., "Lossless Image Compression: A Comparative Study", Proc. SPIE, Vol. 2418, pg. 8-20, 1995. (March, 1995)	<input type="checkbox"/>	<input type="checkbox"/>
	61.	B. M. Oliver, et al., "Efficient Coding", Bell Syst. Tech. J., Vol. 31, No. 4, pg. 724-750, July 1952.	<input type="checkbox"/>	<input type="checkbox"/>
	62.	T. A. Ramstad, "Analysis/Synthesis Filter Banks with Critical Sampling", Proc. Int. Conf. Digital Signaling Processing, Florence, Italy, September 1984.	<input type="checkbox"/>	<input type="checkbox"/>
	63.	A. Moffat, et al., "Arithmetic Coding Revisited", Proc. Data Compression Conf., Snowbird, UT, pg. 202-211, March 1995.	<input type="checkbox"/>	<input type="checkbox"/>
✓	64.	A. Said, et al., "Image Compression using the Spatial-Orientation Tree", Proc. IEEE Int. Symp. Circuits Systems, Chicago, IL, pg. 279-282, May 1993.	<input type="checkbox"/>	<input type="checkbox"/>
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